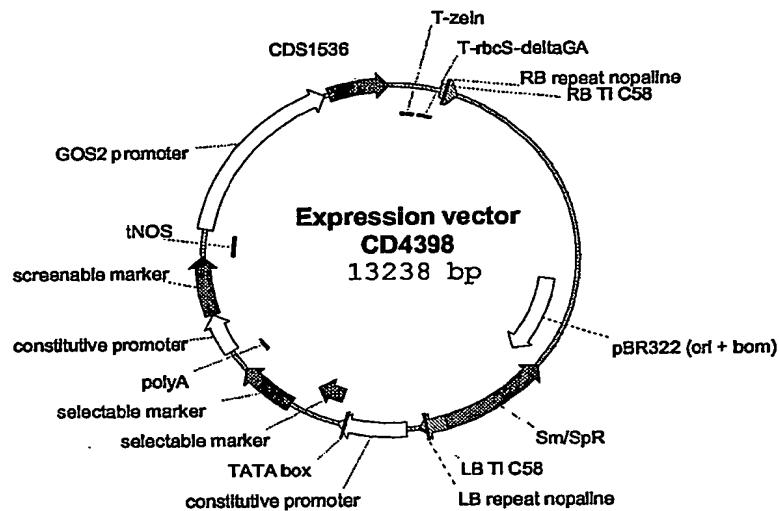
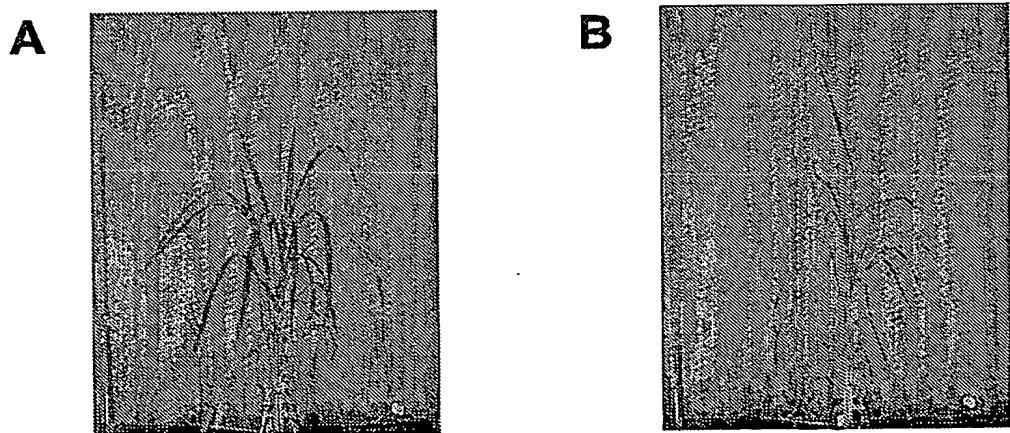


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**FIGURE 1****FIGURE 2**

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**SEQ ID NO 1: *Arabidopsis thaliana* STZ cDNA (CDS1536)**

**AATGGCGCTCGAGGCTCTTACATCACCAAGATTAGCTCTCCGATTCCTCCTTGTTCGAAG**  
**ATTCTCAGTCTTCCATGGAGTCGAGCACTGGACAAAGGGTAAGCGATCTAAGAGATCAAGA**  
**TCCGATTCCACCACCAAAACCTCACTGAGGAAGAGTATCTAGCTTTGCCTCATGCTTCT**  
**CGCTCGCGACAACCGTCAGCCTCCTCCCTCCGGCGGTGGAGAAGTTGAGCTACAAGTGTA**  
**GCGTCTGCAGACAAGACGTTCTTCAAGCTCTCGGTGGTACAAGGCAAGGCCACCGT**  
**AAGAACTTATCACAGACTCTCCGGCGGAGGAGATGATCATTCAACCTCGTCGGCGACAAC**  
**CACATCCGCCGTGACTACTGGAAGTGGAAATCACACGTTGCACCATCTGTAACAAGTCTT**  
**TTCCTCCGGTCAAGCTCTCGGCGAACACAAGCGGTGCCACTACGAAGGAAACAACACATC**  
**AACACTAGTAGCGTGTCCAACCTCGAAGGTGCGGGGTCCACTAGCCACGTTAGCAGTAGCCA**  
**CCGTGGGTTTGACCTAACATCCCTCCGATCCCTGAATTCTCGATGGTCAACGGAGACGACG**  
**AAGTCATGAGCCCTATGCCGGCGAAGAAGCCTCGGTTGACTTCCGGTCAAACCTCAACTT**  
****TAAGGAAATT****

**SEQ ID NO 2: *Arabidopsis thaliana* STZ protein with annotation of the domains**

B-BOX	L-BOX
MALEALTSPRLASPIPLFEDSSVFHGVEHWTKG <b>KRSKRSRS</b> DFHHQNLTEEEYLAFC <b>MLL</b>	
ARDNRQPPP PPPAVEKLSYK <b>CSVCDKTFSSYQALGGHKASHRKNL</b> SQTLGGDDHSTSSATT	
TSAVTGSGKSHV <b>CTICNKSFP</b> SGQALGGHKRCHYEGNNNNINTSSVSNSEAGSTSHVSSSH	
RGF <b>DLNIP</b> PIPEFSMVNGDEVMSPM <del>PAKKPR</del> DFPVKLQL	

EAR motif

**SEQ ID NO 3: PRM3204 (sense, start codon in italics)**

5' GGGGACAAGTTGTACAAAAAAGCAGGCTTCACAATGGCGCTCGAGGCTC 3'

**SEQ ID NO 4: PRM3205 (reverse, complementary stop codon in italics)**

5' GGGGACCACTTGTACAAGAAAGCTGGGTAAATTCCCTAAAGTTGAAGTTGA 3'

**BOXES****SEQ ID NO 5: QALGGH motif**

QALGGH

**SEQ ID NO 6: NNM motif**

NN (M/W) QMH

**SEQ ID NO 7: EAR motif**

hDLNh (X) P

**SEQ ID NO 8: B-Box**

KR (S) KRXR

**SEQ ID NO 9: L-Box**

EXEXXAXCLXXL

**FIGURE 3**

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## ORTHOLOGS OF STZ in OTHER PLANT SPECIES

**SEQ ID NO 10:** Dg\_AF119050\_1 *Datisca glomerata* zinc-finger protein 1 (zfp1) mRNA, complete cds

```
GGCACGAGGACAAATTCTCTCTATCCTCTGAATATCTTGGTTGTGAACGTGAGAACGTA
TTAGATGGCTCTAGAAGCGCTCAACTCTCCGACCACAGCTACGCCGGTGTTCACTACGACG
ACCCCAGCTGAATTACCTTGAGCCATGGACCAAGCGTAAGCGTTCCAAGCGTACGCGCTTA
GATAGCCCCATAACCGAGGAAGAGTACCTTGCTTCTGCCTCATCATGCTCGCTCGTGGCCGC
GTTGCCTCTGCAAATCGACGGGATTCTCAGTCTTCATTAGTTCAGATTCAAGAACGAC
TTCGGCTACCAAAGTCAGTTATAAGTGCTCTGTGCGATAAGGCCTTTCGTCTATCAGG
CTTGGGTGGGCACAAGGCCACAGAAAGCTCGCTGGCGGAAGATCAATCGACCTCC
TTGCCACCACGAATTCAAGCCACCGTCACCTACCAACAGCCTCCGGAGGTGGTGGCAGGTC
TCATGAGTGTCTATTGCCACAAATCGTCCGACTGCCAGGCCTGGGTGGTCACAAGC
GCTGCCACTACGAAGGCAGTACGGCGCAATAGTATTCAACCACACAACACCACAAAC
AGCGGAAGCAACGGTGGCATGAGCATGACCTCGAAGTAGGTTCCACACACAGTCAGCCA
CAGTCACCGTGACTTCGATCTCAACATCCGGCTTGCCGGAGTTCGGTCGAATTCTCA
TATCCGGGATGACGAGGTGAGAGTCCTCATCCGGCAAGAAACCCGTATATTGATGAAA
AAAAACATTCTCAAGATCACTGAACCAGGCTTAGTTCTTATAGGAGGAGATTTAAAAAA
AGTAGTATCTCTTTCTTATCCGTAGGATAATTAATATTCGTGTACATAAATTGTA
GTTCTTAACACACTCTGTTCAACTTGTGCTCAACTTGTATTGGTTATTCATT
ATGAAAATTCAATT
```

**SEQ ID NO 11:** Dg\_AF119050\_1 *Datisca glomerata*, STZ ortholog, protein

```
MALEALNSPTTATPVFHDDPSLNYLEPWTKRKRSKRTRLDSPHTEEYLAFCILMLARGV
ASANRDSQSSIQIPEATTSATKVSYKCSVCDKAFFSYQALGGHKASHRKLAGGEDQSTS
ATTNSATVTTTASGGGRSHECSICHKSFTPQALGGHKRCHYEWSIGGNSIHNNNTNS
GSNGGMSMTSEVGSTHTVSHSHRDFDLNIPALPEFRSNFFISGDDEVESPHPAKPRILMK
```

**SEQ ID NO 12: Gm\_T09602\_U68763.1\_GMU68763** Glycine max (soybean) probable zinc finger protein SCOF-1 mRNA, complete cds

```
AAAATTCTCACTCTCTCATCTCGAGATCATAGTATCATATTCAATATCATTTCATACC
AAACACATGGCTTGGAAAGCTCTCAACTCACCAACAACACCCTCCATCTTCCATTG
CGACCCAACATTCCATGGCGAAACGAAAACGTTCAAAGCGTTCTCGGACCATCCTCTG
AAGAAGAGTACCTCGCCCTCTGCCTCATCATGCTCGCTCGCGGGACCACCCACGTCAC
AACCGCCACGTCAGCCCTCCGCCGCTACAGCCACAGCCACAGCCACACCAGATCCTCCAC
CAAGCTCAGTTACAATGCTCCGTTGCGACAAGAGCTCCCCTCTTACCAAGCGCTCGGTG
GACACAAAGGCCAGTCACCGGAAACTCGCCGGCGCCGCCGAAGACCAACCCCCCAGCACC
ACTTCTCCGCCGCCACAGCTCCGCTCCGGAGGTTAAGGCCCAGTGCTCCATTG
CCACAAATCCTCCCCACCGGACAGGCCCTGGCGGACACAAACGTTGTCACACGAAGGTA
ACGGTAACGAAATAACAACAAGTAACAGCGTTGTCACCGTCGCCCTCGGAAGGCCTGGC
TCCACCCACACTGTCAGTCACGCCACCAACCGCGACTTCGATCTCAACATCCGGCTTTCC
GGATTTCGACCAAGGTGGAGAAGACGAGGTTGAGAGCCCTCACCCGTCAATGAAGAAGC
CTCGCCTCTCGTCATTCCAAGATCGAAATCCCCAATTCAATGAACCTCGTTGAATT
AGTTTATTTTCGACTATATTTGGAGAATTGAGAGTTACTATAATTGATTTGTAC
ATAGTACTTGGAAAGTTTGTGGACCGTACCGGACCCAGTTCTGGTTGAGGTTGTACTTT
ACAACAGTGGCAGATTGCAATTCAATTATTGTTATTAAAAAA
```

**FIGURE 3 (continued)**

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**SEQ ID NO 13:** Gm\_T09602 Glycine max (soybean) probable zinc finger protein SCOF-1, STZ ortholog, protein  
MALEALNSPTTAPSFPFDDPTIPWAKRKRSKRSRDHPSEEEYLALCLIMLARGGTTVNNR  
HVSPPPLQPQPQPTPDFSTKLSYKCSVCDKSFPSYQALGGHKASHRKLAGAAEDQPPSTTS  
SAAATSSASGGKAHECSICHKSFTPQALGGHKRCHYEUNGNGNNNNNSNVTVASEVGST  
HTVSHGHHRDFDLNIPAFPDFSTKVGDEVESPHPVMKKPRLFVIPKIEIPQFO

**SEQ ID NO 14:** Ms\_CAB77055\_Y18788.1\_MSY18788 Medicago sativa putative TFIIIA (or kruppel)-like zinc finger protein mRNA  
AATTCCGGCACGAGAAATAACCACTCTCTCTAAAACCTCCTTGCCCTTGCTTACTT  
TCACTTGCCTAACGCTAACTACTCTCGAGTGTCTTTCATCATATGGCTATGGA  
AGCACTTAACCTACCCACCCTGCTACTCCTTCACACCCCTTGAGGAACCAAATCTGAGTT  
ATCTGAAACACCGTGGACGAAAGGTAAACGATCAAAGCGTCTCGCATGGATCAATCTCA  
TGCACAGAAGAGTATCTCGCTTTGTCTCATCATGCTTGCTCGCAGCGGTAAACAACAA  
CGACAAAAAGTCTGATTGGTGGCGACGCCGCTAACCAACCGTTAAACTCAGTCACAAATGCT  
CAGTCTGCAACAAAGCTTCTCATCTTATCAAGCCCTAGGTGGACACAAAGCCAGTCACCGG  
AAAGCTGTTATGTCCGCAACCACCGCTGAAGATCAGATCACCACCTCATCCGCCGTGAC  
TACCAAGCTCTGCTTCAAACGTAAGAACACAAGACTCATGAGTGTCCATCTGTCACAAATCCT  
TCCCTACTGGACAGGCTTGGGAGGACACAAGCGTTGTCACTACGAAGGCAGCGTTGGGCC  
GGTGCCTGGCTGGAGTAACGCTGTAACGCCTCTGAAGGGATTGGATTGTACACAGCCA  
CCACCGTGAATTGATCTAACCTCCGGCTTCCGGACTTTCAAAGAAGTTTGTGG  
ATGACGAGGTTTTAGTCCTTACCTGCTGCAAAGAACCCCTGTCTTTCAAGCTGGAAATT  
CCTTCTCATTACTGATCAATAATAGATCCAATTTTATTGTTATTATTATAATTATTAT  
CGCTTAGGGCATAGTTATTCTTCAATTATTGATCAATTGTTCTGTACA  
TACAAATTGGGATTGGTTAGAATTAGGACGGTTGTAGACAATGGAAATTCAATTCAATT  
ATTTAATTGTGT

**SEQ ID NO 15:** Ms\_CAB77055\_Medicago sativa putative TFIIIA (or kruppel)-like zinc finger protein, STZ ortholog, protein  
MAMEALNSPTTATPFTPFEENLSELETPWTGKRKRSKRSRMDQSSCTEEYLALCLIMLARS  
GNNDKKSDSVATPLTTVKLSHKCSVNCNAFKSSYQALGGHKASHRKAVMSATTAEDQITTS  
SAVTSSASNGKNKTHECSICHKSFTPQALGGHKRCHYEVGAGAGAGSNAVTASEVGGL  
SHSHHRDFDLNLPAFPDFSKKFFVDEVFSPLPAAKPCLFKLEIPSHY

**SEQ ID NO 16:** Nt\_AAC06243\_AF053077 Nicotiana tabacum osmotic stress-induced zinc-finger protein (zfp) mRNA, complete cds  
TTTCCCTCGAATTGATAACTAAAGAGAAATTATGACTCTTGAAGCTTGAAAGTCACCTA  
CGGCCGCAACGCCGACTCTACCACACCGTATGAAGATGATGAAATTCTATAATTGGAT  
TCTTGGGCTAAAGAAAAGATCAAACGGCCCCGTATTGATGCCCAACCGACTGAAGAAGA  
GTATTAGCCCTCTGTCTCATCATGCTCGCTCGCAGCGGAACCGGAACCGAGAACCGGTTAA  
CTGATGCTACTACTTCCAAACAACCTGCCATAAAAAACGCCGAGTTGCCCGGTTCAT  
AAGAAAGAGGTGGCAACAGAGCAAGCAGAGCAATCTTACAAGTGTAGCGTGTGTACAAGGC  
TTTTCTTCTTATCAAGCACTCGGTGGGCATAAAAGCAAGTCACCGTAAACTACTACTG  
CTACCGCCGCTCTGATGATAACAATCTTCAACTTCAACTTCCACTGGCGCCGTTAATATC  
TCTGCTCTTAATCCAACCTGGTCGTTCACACGCTCTGTTCTATTGCCACAAGCTTTCTAC  
TGGCCAAGCTTGGGTGGCACAAGCGCCGCACTATGAAGGCAAACTCGGTGGTAACAGCC  
GCGACTTAGGCGGGCGGCGGGCGGTAGTGGAAAGCGTCTGACTACTCAGACGGC

**FIGURE 3 (continued)**

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GGCGCGTCGACTCACACGCTACGTGACTTTGACCTAACATGCCTGCTTCGCCCGGAATTGCA  
 ACTGGGTCTGAGTATTGATTGTGGACGGAAAAGTCACACTGTTGCCATGGTCCAAGAGGTGG  
 AAAGTCCTATGCTGCAAAGAAACCGCGTTATTGTTCTGGTGGGTTGAAACTTCTTAGG  
 GGAATTGAATTGATTGTGTTAGCCAAATTAGTAAATTGGTCATGTGATTTTATTTAG  
 GAAAAGGAATTATTGATTGTTACCCGTTATTCTTAGGGTGGTATTATGTACAGGGAGTG  
 AATCATTCAATTGTTTACACTTCTTAATTATATATTCTTTTTACACATAAAAAAAA  
 AAAAAAA

**SEQ ID NO 17:** Nt\_AAC06243\_Nicotiana tabacum osmotic stress-induced zinc-finger protein, STZ ortholog, protein  
 MTLEALKSPATAATPTLPPRYEDDEIHNLDWSAKGRSKRPRIDAPPTEEEYLALCLIMLAR  
 SGTGTRTGLTDATTSQQPADKKTAELPPVHKKEVATEQAEQSYKCSVCDKAFFSYQALGGHK  
 ASHRKTTTATAASDDNNPSTSTSTGAVNISALNPTGRSHVCISICHKAFTGQALGGHKRRH  
 YEGKLGGNSRDLGGGGGGHSGSVLTTSDGGASTHTLRDFDNLMPASPELQLGLSIDCGRKS  
 QLLPMVQEVESEPMAPKKPRLLFSLG

**SEQ ID NO 18:** Os\_AF332876 Oryza sativa zinc finger transcription factor ZF1 mRNA, complete cds  
 AATTCCGGCACGAGGCCACACAGCAACCAGCCAGCTGCCACACTAGCTTGAGGCGAGCGAGCG  
 AAGCTTAGCTAGCGGATAGAACAAAGTCGTCGATCTGCTGCTGCTTTGTGAATTGCGGTGG  
 AAGCATGTCGAGCGCGTCGTCCATGGAAGCGCTCCACGCCGCGGTGCTCAAGGAGGAGCAGC  
 AGCAGCACGAGGTGGAGGAGGCGACGGTGTGACGAGCAGCAGGCCACGAGCGGGGAGGAG  
 GGCAGCACCTGCCCAAGGGTGGCGAAGCGGAAGCGGTGCGGCCAGCGATCGGAGGA  
 GGAGAACCTCGCGCTCGCCTCCTCATGCTGCCCGCGCGGCCACCCCGCTCCAGGC  
 CGCCTCCGCTCTCGGCTCGCGCCCCCGCCGGCAGGTGCGGAGTTCAAGTGCTCCGCTGC  
 GGCAAGTCCTCAGCTCCTACCAGGCCTCGGCGCCACAAGACGAGCCACCGGGTCAAGCT  
 GCCGACTCCGCCCGAGCTCCCGTCTGGCTCCGCCGCGCCCTGCTGCCCTCCG  
 CCGAGGACCGCGAGCCAGCCACGTCACTCCACCGCCGCGCTCCGACGGCATGACCAACAGA  
 GTCCACAGGTGTCCATCTGCCAGAAGGAGTCCCCACCGGGCAGGCCTGGCGGGCACAA  
 GAGGAAGCACTACGACGGTGGCTAGGCCTGGCGCCGGCATCTCAACCGAGCTCTGG  
 CCACGGTGGCCCGAGCTCGAGGGTGGGAAGCTCCGGCAACGCCAGTCCGCCACCCGGCG  
 TTCGACCTCAACCTCCCAGCGTCCGGAGTTCTGTGGCGCCGTGCTCAAGGGCAAGAA  
 GATGTGGGACGAGGAGGAGGAGGTCCAGAGCCCCCTGCCCTCAAGAACGCCGGCTTCTCA  
 CCGCGTAATTCAGCAGCTGCACGGATCCGATCCGTCAAGAGTTTGTCTAGGGAGTGAATT  
 CAGTCGAAACACACTATTGTTGATCGTTGTGCGCGCTATTGTTAATTGTTCTGCTT  
 TTGTACAGAGCAAGCGAGTGATACATAGCCATACATACTACAGTCATACAGATAAGGTCTAGCT  
 CTTCTTGTTCTTGTAAACACTGGAACTGTACCTGTATCTTACACTTTGTTCTTGACA  
 GTCATATATTGTAGACCAAAAAAAA

**SEQ ID NO 19:** Os\_AF332876 Oryza sativa seedling zinc finger transcription factor ZF1, STZ ortholog, protein  
 MSSASSMEALHAAVLKEEQQQHEVEEATVVTSSSATSGEEGGHLPQGWAKRKRSSRQRSEEE  
 NLALCLLMLARGGHHRVQAPPPLSASAPPAGAEFKCSVCGKSFSSYQALGGHKTSRVKLP  
 TPPAAPVLAPAPVAALLPSAEDREPATSSTAASSDGMTNRHRCSCIQKEFPTGQALGGHKR  
 KHYDGGVGAGAGASSTELLATVAAESEVGSSGNGQSATRAFDLNLPAVPEFVWRPCSKGKMM  
 WDEEEEVQSPFLAFKKPRLLTA

**FIGURE 3 (continued)**

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**SEQ ID NO 20:** Ph\_BAA05079\_D26086.1 [Petunia x hybrida].  
**PETZFP4 zinc-finger protein gene**

TTCACTCACCAAAACAACCTCTACCTCTTACTTGACATTCAAATTCTTCATTACTA  
 CTTATCTCTACTAATCTGATTGATTTAGTAAATCAAACAAGAGAACATTTCAGTAATA  
 CAAACAAAGAAAATTTCTCTATACTTGATTGAGTTAGTAAGGCAAACAAGAAAATTC  
**ATGGCACTTGAAGCATTGAATTCTCCAAC**TACAACAACACCACCATCATTCAATTGAGAA  
 CAACGGGCTTAAGTACCTTGAGAGTGGACAAAAGGTAAAAGATCAAAAAGGCAACGCAGCA  
 TGGAACGACAGTGTACTGAAGAAGAGTATTAGCACTTGTCTTATCATGCTAGCACGTAGC  
 GATGGTTCTGTTAATAACTCACGGTCTCTACCCACCACCACTACCCACATCAGTTCCAGT  
 AACGTCGCAAATAACGCGACGTTATTGGAACAGAAGAATTGTACAAGTGTCCGTTGTG  
 GTAAAGGGTTGGGTCTTATCAAGCTTAGGTGGACATAAGCAAGTCACCGGAAACTTGTC  
 AGCATGGGAGGAGATGAACAATCTACTACTTCCACTACTAACTAACGTAACGGGAACTAGTTC  
 CGCTAACGTTAACGGTAACGGAAGAACTCACGAATGTTCAATTGTCACAAGTGCTTCTA  
 CTGGACAAGCTTAGGTGGTCATAAAAGGTGCCACTATGACGGTGGTAACGTTAACGGTAAC  
 GGAAGGTGAAGTGTGGGTGACGTATCTGAAGGTGTGGGTCACTATTAGTCATCACCG  
 TGACTTTGACTTGAATATTCCCGCGTGTGCCGGAGTTTGCCGGATTGGTCCGGCGAGG  
 ATGAGGGTGGAGAGTCCTCATCCAGCAAAGAAGTCAGGCTATCTCTTCCACCTAAACTGAA  
 TTATTCAAAGGATTATAGAGGGAATTGATTGTTACAGGAAGATTATTAGGATTACAGA  
 ATTTTTGTTGACTAGTTATGTAATAT

**SEQ ID NO 21:** Ph\_BAA05079 [Petunia x hybrida] zinc-finger protein, STZ otholog, protein

MALEALNSPTTPPSFQFENNGLKYLESWTKGRSKRQRSMERQCTEEYLALCLIMLARS  
 DGSVNNRSRSLPPPLPPSVPVTSQINATLLEQKNLYKCSVCGKGFGSYQALGGHKASHRKLV  
 SMGGDEQSTTSTTNVTGTSANVNGNRTHECSICHKCFPTGQALGGHKRHYDGGNGNGN  
 GSWSVGVTSSSEVGSTISHHRDFDILNIPALPEFWPGFSGEDEVESPHPAKKSRLSLPPKLE  
 LFKGL

**SEQ ID NO 22:** Ta\_BAA03901 Triticum aestivum gene for zinc-finger protein WZF1, complete cds

**ATGTCGTCGCGCCATGGAAGCGCTCCACGCCCTGATCCCGGAGCAGCACAGCTGGACGT**  
 TGAGGCGGCTCGCGCTGTCAAGCAGCGCCACCAGCGCGAGGAGAGCGGCCACGTGCTGCAGG  
 GGTGGCCAAGAGGAAGCGATCGCGCCGCCAGCGCTCCGAGGAGAGCGGCCACGTGCTCTGC  
 CTCCTCATGCTCTCGCGCCGCCAGCAGCGTGTCAAGTGTCCGCTCGCGCAAGTCCTTCAGCTCCTACCA  
 CGCTCGGAGGCCACAAGACGCCACCGGGTGAAGCAGCGTCTCCTCCCTGTATGCCGCT  
 GCTGCCCACTCGTGGCCCTCCCGGCCGTCGCCGCCATCTGCCGTCCGCCAGCCGCCAC  
 GTCGTCACCGGCCGCGTCCCGACGGCGACCAACAGAGTCACAGGTGTCCATCTGCC  
 AAAAGGAGTCCCGACTGGCGAGCGCTCGGGGGCACAAGAGGAAGCACTACGACGGAGGC  
 GTGGCGCCGCCGCTCGACCGAGCTCTGGCGCCGCCGAGTCTGAGGTGGG  
 GAGCACCGGCAACGGGAGCTCCGCCGCCGGCCTCGACCTGAACATTCCGGCGTGC  
 AGTTCGTGTGGAGGCCGTGCACCAAGGGCAAGATGATGTGGGAGGACGATGAGGAGGTGCAG  
 AGCCCCCTCGCCTCAAGAACGCTCGCTTCACCGCTTGA

**FIGURE 3 (continued)**

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**SEQ ID NO 23:** Ta\_BAA03901\_WZF1 *Triticum aestivum*, STZ ortholog, protein  
 MSSSAMEALHALIPEQHQLDVEAAAATSSGEESGHVLOQWAKRKRSRRQRSEENLALC  
 LLMLSLRGKGQRVQAPQPESFAAPVPAEFKCSVCGKSFSYQALGGHKTSRVKQPSPPSDAA  
 AAPlVALPAVAAILPSAEPATSSTAASSDGATNRVHRC\$ICQKEFPTGQALGGHKRHYDGG  
 VGAAASSTELLAAAAAESEVGSTGNNGSSAARAFDLNIPAVPEFWWRPCAKGKMMWEDDEEVQ  
 SPLAFKKPRLLTA

**SEQ ID NO 24:** Ca AF539746 *Capsicum annum* zinc finger protein mRNA, complete cds  
 AAAATCTCGCTACTTACTTACATCTTAGAATAGTCACTAGAACAGTAACTTATACAA  
 CGGATATCGATATGGCACTGAAGCTTGATTCTCAACTGGTACACCAACTCCGCCACCG  
 TTTCAATTGAGAGCAGCGCACAGCTTGATATATCGAAAATGGAGGAAGGGAAAGAG  
 ATCTAAAAGGTACGCAGCATGGAGCACCAGCTACTGAGGAAGAATACTTAGCGCTTGTT  
 TGATCATGCTTGACGTAGCGGTGGCTCCGTTAATCATCAACGATCTTACCCACCGCCGGCT  
 CCGGTGATGAAACTGCACCGCGCGTCGTATCATCGGCGGCGGAGGAGGAGAAGGAGAAGAT  
 GGTGATAAGTGGTTGTGGTAAGGGATTGGGCTTATCAAGCTTAGGTGGACACA  
 AAGCTAGTCACCGGAAACTCGTACCCGGGAGATGATCAGTCAACTACCTCCACAACCACT  
 AACGCAACCGGAAACAACAACCTCCGTTAACGGCAACGGCAACAGAAGTGGAAAGGACTCACGA  
 GTGTCGATTTGTACAAGTGTCCCCTGGACAAGCTTAGGTGGACACAAAAGGTGTC  
 ACTACGACGGCGGTATCGTAACGGAAACGCTAACAGTGGCGTTAGTGCTAGCGTTGGAGTG  
 ACGTCATCGGAGGGTGTGGGTCACAGTCAGTCACCGGGATTGCAACTTGAAACATTCCGGC  
 GTTGCCGGAATTCTGGCTGGGATTGGTCCCGCGAAGATGAGGTGGAGAGTCCACATCCGG  
 CGAAGAAATCGCGGTATGTTGCTCCAAAATATGAATTATTCACATTAATGGGAAATT  
 GATTGTTAGGATTTACTATTTGGTAGACAAAATTATACTATGTAAGTTAATTTCATTG  
 TGGGTGGGAGCAAATTTTAATTGGCTATAGACCTAGCTAGTTACTAATAGCAAAA  
 TTCAATTGATTAAAAA

**SEQ ID NO 25:** Ca AF539746-capsicum annum, STZ ortholog, protein  
 MALEALNSPTGPTPPPFQFESDGQQLRYIENWRKGKRSRSMEHQPTEEYLALCLIML  
 ARSGGSVNHQRSLPPPAPVMKLHAPSSSSAAEKEKMYKCSVCGKGFGSYQALGGHKASH  
 RKLVPGGDDQSTTSTTNATGTTSVNGNGNRSGRTHECSICHKCFPTGQALGGHKRCHYDG  
 GIGNGNANSGVSASVGTVSSEGVGSTVSHRDFDLNIPALPEFWLGFGSGEDEVESPHPAKKS  
 RLCLPPKYELFQH

#### PARALOGS OF STZ IN ARABIDOPSIS THALIANA

**SEQ ID NO 26:** gi\_18402298\_ref\_NM\_112848.1 mRNA  
 ACTTCACTCTCTAATTCTCTCTATCTCACCATATTCGCGATTTAAACTCTCAAC  
 TTTCTCTCAAAATTCTGATCCTTGTGATCCAACAGTTAGAAGAAGATTGATCTGATCATGGC  
 CCTCGAAGCGATGAAACACTCCAACCTTCTTCAACAGAATCGAAACGAAAGAAGATTGA  
 TGAACGACGCCGTTTCATTGAGCCGTGGCTAAACGCAAACGCTCCAAACGTCAGCGTTCT  
 CACAGCCCTTCTCGTCTTCCTCACCGCCTCGATCTGACCCAAATCCAGAATCAAGA  
 TCTTACGGAAGAAGAGTATCTCGCTCTTGCTCTCCTCATGCTCGTAAAGATCAACCGTCGC  
 AAACGCGATTTCATCAACAGTCGCAATGTTAACGCCGCCAGAATCAAAGAACCTCCG  
 TACAAGTGTAACTGCTGTGAAAAGCGTTCTCTATCAGGCTTAGGGGTACAAAGC  
 AAGTCACCGAATCAAACCAACCGTAATCTCAACAAACCGCCGATGATTCAACAGCTCCGA

**FIGURE 3 (continued)**

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CCATCTCCATCGTCGCCGGAGAAAAACATCCGATTGCTGCCTCCGGAAAGATCCACGAGTGT  
 TCAATCTGTATAAAGTGTTCGACGGGTCAAGCTTAGGCGGTACAAAACGTTGTCACTA  
 CGAAGGCAACCTCGCGCGGAGGAGGAGGAGGAAGCAAATCAATCAGTCACAGTGGAAAGCG  
 TGTCGAGCACGGTATCGGAAGAAAGGAGCCACCGTGGATTCATCGATCTAACCTACCGCG  
 TTACCTGAACTCAGCCTCATCACAATCCAATCGTCACGAAGAGATCTTGAGTCCGTTGAC  
 CGGTAAGAACCGCTTTGTGACCGATCACGCCAACGACTCATCAAGAAAGAAGATTATCTT  
 TAAAAATCTAATACTCGACTATTAAATTCTGTGTGATTTTCGTTACAACCATAAGTTCA  
 TTTTCATTTTTAGTTACAAATTAAATTGTTCTGATTGGATTGAATATTGGTATATTG  
 TTAGGGGTTGATAC

**SEQ ID NO 27:** Translation of gi\_18402298\_ref\_NM\_112848.1  
 MALEAMNTPTSSFTRIETKEDLMNDAVFIEPWLRKRKRSKRQSHSPSSSSPPRSRPKSQN  
 QDLTEEEYLALCLLMLAKDQPSQTRFHQQSQSLTPPPESKNLPYKCNVCEKAFPSYQALGGH  
 KASHRIKPPVTIISTTADDSTAPTISIVAGEKHPPIASGKIHECSICHKVFPTGQALGGHKRC  
 HYEGNLGGGGGGGSKSISHSGSVSSTVSEERSHRGFIDLNLPALPELSLHHNPIVDEEILSP  
 LTGKKPLLLTDHDQVIKKEDLSLKI

**SEQ ID NO 28:** gi\_30680473\_ref\_NM\_120516.3\_mRNA  
 AAATCAAATCTTTCATTACAATTATCTTCTTCATAATTAGAAACTTAGTAGCTAGTCTT  
 CAAGATAATGGCACTTGAAACTCTTACTTCTCCAAGATTATCTTCTCGATGCCGACTCTGT  
 TTCAAGATTCACTAGGGTTTCATGGAAGCAAAGGCAAACGATCTAACGCGATCAAGATCT  
 GAATTGACCGTCAGAGTCTCACGGAGGATGAATATATCGTTATGTCTCATGCTTCTTGC  
 TCGCGACGGAGATAGAAACCGTGACCTTGACCTGCCTTCTTCGTCTCACCTCCTGC  
 TTCCTCCTTCTACTCCGATCTACAAGTGTAGCGTCTGTGACAAGGCGTTTCGTCTTAC  
 CAGGCTCTGGTGGACACAAGGCAAGTCACCGGAAAGCTTTCGTTACTCAATCTGCCGG  
 AGGAGATGAGCTGTCGACATCGTCGGCGATAACCACGTCGGTATATCCGGTGGCGGGGAG  
 GAAAGTGTGAAGTCGCACGTTGCTCTATCTGTCTAAATCGTTCGCCACCGGTCAAGCTCTC  
 GGCGCCACAAACGGTGCCACTACGAAGGAAAAGCAGGAGGCGGTGAGTAGTAGCGTGTC  
 GAATTCTGAAGATGTGGGTCTACAAGGCCACGTCAGCAGTGGCCACCGTGGGTTGACCTCA  
 ACATACCGCCGATACCGGAATTCTCGATGGTCAACGGAGACGAAGAGGTGATGAGTCCCTATG  
 CGCGCAAGAAACTCCGGTTGACTTCCCAGAGAACCTAAACATAAACCTAGGAAACT  
 TTACAGAATTCTTATAGGAAATTGTTTACTGTATATAACAAATATCGATTGATTGAT  
 GTTCTCTTCACTGAAAAATTATGATTCTTGTGTATAATTGATGTTCTGAAAAAGATAT  
 AACTTTTATTGTTCACACGTACAAATTGCTGGATACATCA

**SEQ ID NO 29:** Translation of gi\_30680473\_ref\_NM\_120516.3  
 MALETLTSPRLSSPMPTLFQDSALGFHGSKGRKRSKRSEFDQSLTEDEYIALCLMLLARD  
 GDRNRDLDLPSSSSSPPLLPLPTPIYKCSVCDKAFCSSYQALGGHKASHRKSFSLTQSAGGD  
 ELSTSSAITTSGISGGGGGSVKSHVCSICHKSFATGQALGGHKRCHYEGKNGGGVSSSVNS  
 EDVGSTSHVSSGHRGFDLNIPPIPEFSMVNGDEEVMSPPAKKLRDFPEKP

**FIGURE 3 (continued)**

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**SEQ ID NO 30:** gi\_30693252\_ref\_NM\_114853.2\_mRNA  
 ATGGCTCTGACACTCTCAATTCTCCACCTCACCACACAACCACCGCTCCTCCTCCTT  
 CCTCCGTTGCCTCGACGAAACCGAGCCGAAAACCTCGAATCATGGACCAAAGAAAACGTA  
 CAAAACGTCAACCGTATAGATCAACCAAACCTCCTCTGAAGAAGAGTATCTCGCTCTT  
 TGCCTCCTTATGCTCGTCGTGGCTCCTCGATCATCACTCTCACCGTCGGATCATCACTC  
 TCTTCTCCACTGTCCGATCATCAGAAAAGATTACAAGTGTCCGTCGTGGCAAATCTTCC  
 CGTCTTACCAAGCGTTAGTGGACACAAAACAAGTCACCGGAAACCGGTTAGTGTGATGTT  
 AATAATAGTAACGGAACCGTTACTAATAACGGAATATTAGTAACGGTTAGTGGTCAAAG  
 TGGGAAGACTCATAACTGCTCTATATGTTAAGTCGTTCCCTCTGGTCAAGCATTGGGTG  
 GTCACAAACGTTGTCACTATGATGGGTAACGTAACAGTAAACGGTACAATAGCCACAAG  
 TTTGACCTAAATTACCGGCTGATCAAGTTAGTGATGAGACAATTGGAAAAGTCAACTCTC  
 CGGTGAAGAACAAAGTCGGTGTGATTATTATTACCGATCGGGATTAGCTAG  
 TGGTTGATCATTAGCTGAGTCGTAAATGAAAATGAT

**SEQ ID NO 31:** Translation of gi\_30693252\_ref\_NM\_114853.2  
 MALDTI NSPTSTTTTAPPPFLRCLDETEPENLESWTKRKRTKRHRIDQPNPPPSEEEYLAL  
 CLLMLARGSSDHHSPPSDHHSLSPLSDHQKDYKCSVCGKSFPSYQALGGHKTSRKPVSVDV  
 NNSNGT VTNNGNISNGLVGQSGKTHNC SICFKSFPSQALGGHKRCHYDGGNGNSNGDN SHK  
 FDLNLPADQV SDETIGKSQLS GEETKS VL

**SEQ ID NO 32:** gi\_30694224\_ref\_NM\_123683.2\_mRNA  
 AAATTTCTATAGCAATGGCGTTGAAGCTCTAATTCAACCAAGATTGGTCGAGGATCCCTT  
 AAGATTCAATGGCGTTGAGCAGTGGACCAAATGTAAGAAACGATCCAACGTTGAGATCTG  
 ATCTTCATCATAACCACCGTCTACTGAGGAAGAGTATCTAGCTTCTGTCTCATGCTCTT  
 GCTCGGGATGGCGGCGATCTGACTCTGTGACGGTTGCGGAGAAGCCGAGTTATAAGTGTGG  
 CGTTGTTACAAGACGTTTCTGTCTACCAAGCTCTCGCGGTATAAGCGAGCCACCGGA  
 GCTTATACGGTGGAGAGAATGATAATCGACACCACCGGTGAAATCTCACGTT  
 TGTCGGTTGGGGAAATCTTCGCCACCGGTCAAGCTCTCGCGGCCACAAGCGGTGCCA  
 CTACGATGGTGGCGTTCGAACTCGAAGGTGTGGGTCTACTAGCCACGTCAGCAGTAGTA  
 GCCACCGTGGATTGACCTTAATATTACCGGTGCAGGGATTTCGCCGGACGACGAAGTG  
 ATGAGTCCGATGGCGACTAAGAAGCTCGCCTGAAGTAAGTCTTGTGAAAGACCTGGAAGT  
 TTATCAAATGTAATATCAAATTCAAGGAACAGTTTGTGATTCTATTACCAAT  
 ACACAATACGATTCAATTCC

**SEQ ID NO 33:** Translation of gi\_30694224\_ref\_NM\_123683.2  
 MALEALNSPRLVEDPLRFNGVEQWTCKKRSKRSRSDLHHNHRLTEEEYLAFCLMLLARDGG  
 DLD SVTVAEKPSYKCGVCYKTFSSYQALGGHKASHRSLYGGGENDKSTPSTAVKSHVCVCG  
 KSFATGQALGGHKRCHYDGGVNSEVGSTSHVSSSSHRGFDLNII PVQGFSPDDEV MSPMA  
 TKKPRLK

**FIGURE 3 (continued)**

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**SEQ ID NO 34:** gi\_30698307\_ref\_NM\_126145.2\_mRNA

CACACTCACTCTTCTTCATCTTCTTCTAAATAGCTGAAATCACATCTCACAGAAT  
 TAAATCTTATGGCTCTCGAGACTCTCAATTCTCAAACAGCTACCACCACCGCTCGGCCTCTT  
 CTCCGGTATCGTAAGAAATGGAGCCTGAGAATCTGAGCAATGGCTAAAGAAAAGAAC  
 AAAACGTCAACGTTTGATCACGGTCATCAGAATCAAGAAACGAACAAGAACCTCCTCTG  
 AAGAAGAGTATCTCGCTCTTGTCTCCTCATGCTCGCTCGTGGCTCGCCGTACAATTCCT  
 CCTCTCCTCTACCGTCACGTGCGTCACCGTCCGATCACCGAGATTACAAGTGTACGGT  
 CTGTGGAAAGTCTTCTCGTCATACCAAGCCTAGGTGGACACAAGACGAGTCACCGGAAAC  
 CGACGAACACTAGTATCACTCCGGTAACCAAGAACTGCTAATAACAGTACAGTAACAGC  
 GGTCCGTTGTTATTAACGTTACCGTGAACACTGGTAACGGTGTAGTCAAAGCGGAAAGAT  
 TCACACTTGCTCAATCTGTTCAAGTCGTTGCGCTGCTGCAAGCCTTAGGTGGACACAAAC  
 GGTGTCACTATGACGGTGGCAACACCGTAACGGTAACCGGAAGTAGCAGCAACAGCGTAGAA  
 CTCGTCGCTGGTAGTGACGTCAGCGATGTTGATAATGAGAGATGGTCCGAAGAAAGTGC  
 CGGTGGCCACCGTGGATTGACCTAAACTTACCGTGTACAAGTCTCAGTGACGACTCTT  
 AACGTTGACTGAGTTGAGGAAAAAGTCAACTATCAAGCGAAGAAAGGGTTAGTGGACGGTG  
 AAGATTAACGGTCGTTCTTCCAGTTGCTTCGGTTGAGCTGACTGGGTCTGTAATGAAA  
 ATGATTGGAGTGGACTTGGCATTATTATTATTATTAAAAGAAATGTTAATTGTTGTT  
 GGATTTGTTATAGATAGAGGAAACAATTGGGATACACAAATATTTTTTTACAAAGA  
 AAATAATAATGCAGAGATGGATGATTGGATCGTACACGTTATTATATAGTGGACCATTCTG  
 AATCGTGAATTATTATTATTGTTAGAAATTAAATTTCGT

**SEQ ID NO 35:** Translation of gi\_30698307\_ref\_NM\_126145.2

MALETLNSPTATT TARPLLRYREEMEPENLEQWAKRKRTKRQRFDHGHNQETNKNLPSEEE  
 YLALCLLMLARGSAVQSPLPLPSRASPSDHRDYKCTVCGKSFSYQALGGHKTSRKPTN  
 TSITSGNQELSNSHNSNSGVVINVTVNTNGVNSQSGKIHTCSICFKSFASGQALGGHKRCH  
 YDGGNNNGNGSSNSVELVAGSDVSDVDNERWSEESAI GGHRGFDLNL PADQSVTTS

#### OTHER GENES IN EVALUATION

**SEQ ID NO 36:** gi\_12698881\_ref\_AF\_332876.1\_mRNA, 2xC2H2,  
*Oryza sativa*

AATTCCGGCACGAGGCCACACAGCAACCAGCCAGCTGCCACACTAGCTTGAGGCGAGCGAGCG  
 AAGCTTAGCTAGCGGATAGAACAAAGTCGATCTGCTGCTGCTTTGTGAATTGCGGTGG  
 AAGCATGTCGAGCGCGTCGTCCATGGAAGCGCTCCACGCCGCGGTGCTCAAGGAGGAGCAGC  
 AGCAGCACGAGGTGGAGGAGGCGACGGTCGTGACGAGCAGCAGGCCACGAGCGGGGAGGAG  
 GGCAGACACCTGCCCAAGGGTGGCGAAGCGGAAGCGGTGCGGCCAGCGATGGAGGA  
 GGAGAACCTCGCGCTCGCTCCTCATGCTGCCCGCGCCACCACCGCGTCCAGCGC  
 CGCCTCCGCTCGGCTCGGCCCGCCGGCAGGTGCGGAGTCAAGTCTCCGCTCTGC  
 GGCAAGTCCTCAGCTCTACCAGGGCGTCGGCGGCCACAAGACGAGCCACCGGGTCAAGCT  
 GCCGACTCCGCCCGCAGCTCCGTTGGCTCCGCCCGTGCCTGCGCTTGCCTCCG  
 CCGAGGACCGCGAGCCAGCCACGTATCCACCGCCGCGCTCCGACGGCATGACCAACAGA  
 GTCCACAGGTGTTCCATCGCCAGAAGGAGTCCCCACCGGGCAGGCCTGGCGGGCACAA  
 GAGGAAGCACTACGACGGTGGCGTAGGCGCCGGCGCCGGCATCTCAACCGAGCTCCTGG  
 CCACGGTGGCGCCGAGTCCGAGGTGGGAAGCTCCGGAACGGCCAGTCCGCCACCCGGGCG  
 TTCGACCTCAACCTCCGCCGTGCCGGAGTTCGTGTGGCGGCCGTGCTCCAAGGGCAAGAA  
 GATGTGGGACGAGGAGGAGGAGGTCCAGAGCCCCCTGCCCTCAAGAAGCCCCGGCTTCTCA  
 CCGCGTAATTCAAGCTGCACGGATCCGATCCGTCAAGAGTTTGTCTAGGGAGTCAAATT  
 CAGTCGAAACACACTATTGTTGATTGTTGCGCTATTGTTAATTGTTCTGCTT

**FIGURE 3 (continued)**

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TTGTACAGAGCAAGCGAGTGATACATAGCCATACATACAGTCATAACAGATATAGGTCTAGCT  
 CTTCCTGGTCTTGTAAACACTGGAACGTACCTGTATCTTACACTTGTCTTGACA  
 GTCATATATTGTAGACCAAAAAAAAAAAAAA

**SEQ ID NO 37:** gi\_12698882\_ref\_AAK01713.1, 2xC2H2, Oryza sativa  
 MSSASSMEALHAAVLKEEQQQHEVEEATVVTSSATSGEEGHLPQGWAKRKRSSRRORSEEE  
 NLALCLLMLARGGHHRVQAPPILSASAPPAGAEFKCSVCGKSFSYQALGGHKTSHRVKLP  
 TPPAAPVLAPAPVAALLPSAEDREPATSSTAASSDGMTNRHRCSCICQKEFPTGQALGGHKR  
 KHYDGGVGAGAGAGASSTELLATVAAESEVGSSGNGQSATRAFDLNLPAPPEFVWRPCSKGKKM  
 WDEEEEVQSPLAFKKPRLLTA

**SEQ ID NO 38:** gi\_6434215\_ref\_AL132966.1\_region 116202 ...  
 116729, 2xC2H2, Arabidopsis thaliana

ATGAAGAGAGACCGGCCATTACGAAGAACATGAAGCATATAGACATAGTAGAAAGTCT  
 AATGATGTTATCTCGAAGTTCTGTGTCACAAACAAATCGATGTAAGCAATCTACCGGAAGCA  
 AAACGAACCATAATAACCACTTCGAATGAAAACGTGTAACCGGAAATTGATTCCCTCCAA  
 GCTCTGGAGGTATAGAGCTAGCCACAAGAACCTAACGCTGATCGTTGACCAAGAACAGGT  
 GAAGCATCGTAACAAAGAGAATGATATGCATAAGTGTACAATTGCGATCAAATGTTGGGA  
 CCGGTCAAGCTCTAGCGGTACATGAGAAAGCATAGGACGAGCATGATAACCGAGCAATCG  
 ATTGTCCCTCTGTGGTTATTCCAGACCGGTTTTAACGTTGCAAGTAGCAGCAAGGAGAT  
 CTTGGACTAAATCTAACCTCCATTGGAAAATGATCTGTGTTAACCTTGGGAAGAATTGG  
 TTCCACAAATTGATTTGAAGTTGTGAATTAG

**SEQ ID NO 39:** gi\_6729511\_ref\_CAB67667.1, 2xC2H2, Arabidopsis  
 thaliana  
 MKRDRSDYEESMKHIDIVESLMMRLSRSFVVKQIDVKQSTGSKTNHNNHFECKTCNRKFDSFQ  
 ALGGHRASHKKPKLIVDQEJVHRNKENDMHKCTICDQMFGTGQALGGHMRKHRTSMITEQS  
 IVPSVYASRPVFNRCSSSKEILDNLTPLENDLVLIFGKNLVPQIDLKFVN

**SEQ ID NO 40:** ref\_CA279020, 2xC2H2, sugar cane  
 CCTAACCGCATAGCTTCAAAATCAACAAAGCCTGCCGTGACCGATCGATGGCCATCACC  
 CACGACGACTACGTCTCCCTCTGCCCTATGGCGCTCGCAGCCGGAGGCGGAGGCCAACG  
 TGGTTAACAAACGCACTACGCTCTGAACACGGCTGCCCTGGACAGCGACGGCGAACAGAGTCG  
 AGCTCCGCTTCCGGTCTCGTCTGTGGCAAGGCCTTCGCGTCGCACCAGGCACTGGCGGG  
 CACAAGGCCAGCCACCGCAAGCCACGCTCGTACAGGCACATGCGTCGTCCCTCAGCCGGAGG  
 CGCGCGTCGTCGGTAACAATGACCTCGCCGTAGGCAGCAGTGGCAGGGGAGGCCACA  
 GGTGCACGGTGTGCCATCGGAGCTTCGCGACGGNGCAAGCGCTGGCGGGCACAAAGAGGTGC  
 CATTACTGGGACGGGCTCTCGGTGTCGCTACCGCGTCGTCGGCGCCATGGGGTCCGGGTC  
 GACCGTCAAGGGCTTGATCTGAATTGGTGCCGGTGCCTCCCGCGATGGCGCCAACGCTG  
 CGACAAGGTGGGGAGAGGAGAANNAAGTCANAAAACCTGGCGGTCAAGAGAAGGCGGCTTG  
 CGGGTCCGTCTGGACCCCTAATTAAACGATTAGAAGTCCCTTTAACGAGATTAAGAGATTC  
 TTTGAAGAAGGTTGTAAGTTCTGAACCTGTTAACGAGATGGATTGGGTGCTGGCGAA  
 ATTTAAACTGGATTAAATTGCGCTCACCTTTTTTACACCCCTTTTT  
 TTTTAGAAGAAGA

FIGURE 3 (continued)

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**SEQ ID NO 41:** gi\_18027011\_ref\_AF254447.1, 2xC2H2, *Arabidopsis thaliana*

TTCCTTCTCTTCTCTCTCTCTCACCATGACTGATCCTTATTCCAATTCTTCACA  
 GACTGGTTCAAGTCTAATCCTTTCACCATACCCCTAATTCCCTCACTAACCCCTCTCCTCA  
 TCCTCTCCTCCCTGTTACTCCTCCCTTCCCTCTTCTTCCCTCAATCCGGAGACCTCC  
 GCCGTCCACCGCCGCCACCAACTCCCTCCCTCTCCCTCTCCGAGAAGCCCTCCCTC  
 CTCAGCCTCAGCCCCGCCAACAAACAAGACCACATCACACCAGATGACCATCAAGATGATCATATA  
 AGAACCCACCTTCACACCTCCATGGATGTCGACTACGATCATCACCATCAAGATGATCATATA  
 ACCTCGATGACGATGACCATGACGTCACCGTTGCTCTCACATAGGCCTTCCAAGCCCTAGT  
 GCTCAAGAGATGCCCTTTGCTCATGATGTTCTTCTTCCTCTCGAGGACCACTCA  
 TCATCACGAGGACATGAATCACAAGAAAGACCTCGACCATGAGTACAGCCACGGAGCTGTCG  
 GAGGAGGAGAAGATGACGATGAAGATTCACTGGCGGGAGACGGCGGCTGTAGAATCAGCAGA  
 CTCAACAAGGTCATATTGGATCCCTACACCTCTCAGATTCTCATTGGCCCTACTCAGTT  
 CTCATGTCCTGTTGCTCAAAACCTCAACAGATAACATGAGATGCATATGTGGG  
 GACATGGATCACAATACAGAAAAGGACCTGAATCTCAAGGGAAACACAACAGGAATG  
 CTAAGGCTTCCGTGCTATTGCTGCGCCCCAGGCTGCGAACACATTGACCATCCAAGGGC  
 AAAGCCTCTCAAAGACTTCAGAACCTCTCAAACACATTACAAGAGAAAACATGGGATCAAAC  
 CTTTCATGTGAGGAAATGTGAAAGGCTTCGAGTCCGAGGGGACTGGAGAACACATGAG  
 AAGAATTGTGGCAAACCTTGTTATTGCATATGTGGATCTGATTCAAGCACAAGAGATCTCT  
 CAAAGATCACATCAAGGCTTTGGGAATGGTCACTGGAGCCTACGGAATTGATGGGTTGATG  
 AAGAAGATGAGCCTGCGCTGAGGTAGAACAAATTAGACAAATGATCATGAGTCATGCAGTCT  
 AAATAGCTTATATATATTACTATAAGTACTAAAGTAACTCGGTATATATATTAAAGAA  
 ACCTAAATCTATGGACCAAGTTTGATGGAGGTAGGGCTTCAAAACTAAAGCTATATCAT  
 CTAATTGATCATAGGAAAAAAATGAATCAAGAGCACTGGAAAATTAAATTGTATCTTA  
 GCTTCCTAGTTAAATTATTGCAAGACAATGTAGCAGTCACCAATGAGGTTCCAACGGT  
 TTATTCTATTGTATATTATTGTCATTAGCTCACCTTCGTTAATTGCAAGGACATAA  
 CTTATAAAATGTTAAATTATG

**SEQ ID NO 42:** At3g57670, 2xC2H2, *Arabidopsis thaliana*

MTDPYSNFFTDWFKSNPFHHYPNSSTNPSPHPLPPVPPSSFFFFPQSGDLLRRPPPPP  
 SPPLREALPLLSLSPANKQQDHNNHDHLIQEPPSTSMDVDYDHHDQDDHHNLDDDDHDVTV  
 ALHIGLPSPSAQEMASLLMMSSSSSSRTTHHEDMNHKKLDHEYSHGAVGGGEDDDED  
 GGDGGCRISRLNKQYWIPTPSQILIGPTQFSCPVCFKTFNRYNMQMHWGHGSQYRK  
 SLRGTOPTGMLRLPCYCCAPGCRNNIDHPRAKPLKFRTLQTHYKRKHGIKPFMCRKG  
 KAFAVRGDWRTHEKNCGKLWYCICGSDFKHRSILDKHIAFGNGHGAYGIDGFDEEDE  
 PASEVEQLDNDHESMQSK

**SEQ ID NO 43:** gi\_18676370\_ref\_AJ311810.2, 2xC2H2, *Arabidopsis thaliana*

ATCTACACACTACTACTCACATCTCATCTCTTAGCACATACCCATCAAACCATATAGAT  
 ACGGTGTTTATTCTGATCTTCTCTTCTTCTCTCAGAGTCATGTCTAAT  
 CCAGCTTGTGCAATCTCTCAACAACTGGATGTGACCATATAAGCTCAACTATTCCACTTC  
 TCTCTCTACATTACAACACTCAGGTAGCTACTATTACTCTAACTACACAAACCTAATT  
 ACATTAATCATACTCATACCACTTCCACTTCCCTAACCTAACAGAGAAGCTCTT  
 CCTCTCTAGCTTAAGCCCCATAAGGCACCAAGAACACAAGACCAACACTATTCTG  
 CACCCATCAAATTAGCTCTCAAACCTTCTGATGATCCTCTGTGACTGTGGATCTC  
 TAGGGTTACCAAACCTACGGTGTGGTGGAGAGCATTAGGAGCAATTGCTCTGATGCAACC

**FIGURE 3 (continued)**

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ACGGACGAGCAAGATCAAGATCATGACCGAGGAGTAGAAGTCACAGTTGAGTCCCACCTTGA  
 TGATGATGATGATCATCATGGAGATCTACACAGAGGTCACTACTATTGGATTCCACTCCTT  
 CTCAGATTTGATTGGTCTACACAGTTCACTGTCTCTTGTCTCAAGACATTCAACAGA  
 TACAACAACATGCAGATGCACATGTGGGGACACGGCTACAATACAGAAAGGGACCAGAAC  
 CTTAAGAGGAACCCAACCAACAGGAATGCTAAGACTACCATGTTCTGCTGTGCACCCGGTT  
 GCAAGAACAAACATTGACCAACCCACAGAGCCAAGGCTCTTAAGGACTTCTGAACCCCTCAAACA  
 CATTACAAACGTAACATGGGTCTAAACCATTGCTGTCTATGTGGTAAGGCCTTGC  
 AGTAAAAGGAGATTGGAGAACGCATGAGAAGAATTGTGGAAAGCTTGGTATTGCTCTTG  
 GCTCGGATTTAACGACAAGAGGTGCGCTTAAGGACCATGTCAGGACCTTGGAAATGGTCAT  
 GTTCCTGTGGGATTGATAGTTGGAGGAGATCATGAGGACTACTATGATGCTGCTCTGA  
 TATCGAGCAATAAGATGATAGCAACAACAATGAGTGTAAATTAGGGTTTGTATTTC  
 CTCTCATGCATTAGTTGATGTATGCACGTGTTAGTTGTCTTCGGATCTTGT  
 TATTTGTTTGAGCTGTTTTTTAATTACTAAGAAGTTAATTATCATCTAAAGATTT  
 C

**SEQ ID NO 44:** gi\_18376498\_ref\_CAC86167.1, 2xC2H2, *Arabidopsis thaliana*

MSNPACSNLFNNGCDHNSFNYSTSLSYIYNHSYSYYNSNTNPNYINHTHTSTSPNSPPLR  
 EALPLLSLSPIRHQEQQDQHYFMDTHQISSSNFLDDPLVTVDLHLGLPNYGVGESIRSNIAP  
 DATTDEQDQDHDRGVEVTVESHLDDDDHHGDLHHRGHYWIPTPSQILIGPTQFTCPLCFKT  
 FNRYNNMQMHMWHGSQYRKGPESLRGTQPTGMLRLPCFCCAPGCKNNIDHPRAKPLKDFRT  
 LQTHYKRKHGSKPFACRMCGKAFAVKGDWRTHEKNCGKLWYCSCGSDFKHKRSLKDHVKAFG  
 NGHVPKGIDSFGGDHEDYYDAASDIEQ

**SEQ ID NO 45:** gi\_7798991\_ref\_AL355775.1\_region 7957 ... 8451,  
 2xC2H2, *Arabidopsis thaliana*

ATGGTTGCGAGAAGTGAGGAAGTTGAGATAGTGGAAAGATACGGCGCGAAATGTTGATGTT  
 GTTATCAAGAGTTGGAGAATGGCGCGAGGAGAGAAACGAGTTTCCGATGCAAGACTT  
 GTCTAAAGAGTTTCGTCGTTCAAGCTTGGAGGTACCGTCAAGGCCACAAGAAACTC  
 ATTAACAGTAGCGATCCATCACTCTGGATCCTGTCTAACAGAAAACCTAAACGGCGAC  
 GTCTCATCCTTGCCGATATGTGGCGTGGAGTTCCGATGGGCAAGCTTGGTGGTACA  
 TGAGGAGACATAGGAGTGAGAAGCTCACCAAGGCACGTTGGTACACGTTTTTACCG  
 GAGACGACGACGGTGACGACTTGAAGAAACTCGAGTAGTGGGAAGAGAGTGGCTTGG  
 CTTAGATTGCGATGGAGAGTTAGTCAATTGGAAGTTGGAGTTGGAAAGAACGATTCTGA

**SEQ ID NO 46:** gi\_7798996\_ref\_CAB90935.1, 2xC2H2, *Arabidopsis thaliana*

MVARSEEIVEIDTAKCLMLLSRVGECEGGGEKRVFRCKTCLKEFSSFQALGGHRASHKKL  
 INSSDPSLLGSLSNKKTATSHPCPICGVFPMQALGGHMRHRSEKASPGTLVTRSFLP  
 ETTTVTTLKSSSGKRVACLDLDSMESLVNWKLELGRTIS

**SEQ ID NO 47:** gi\_9755794\_ref\_AL391143.1\_region 31730 ...

32938, 2xC2H2, *Arabidopsis thaliana*  
 ATGGAAAGACGAACATCAAGATCTCCATAAACCCATTAAATGGAGCTTGGCGAGACCTCAAGAT  
 TACTCGGTACAGAAAGAACAGAAAAGTCTACGAACCAACAGCAAGATGTTACTTGTACT  
 ATGGTCTAAGGGAAAACCTCGAAGAAGAAAACCCAGGAATCTCCGGAACCAATGAAGAAGATT  
 TTGTTGCGATGCGAAGAATGTGGAAAGGGTTCGGTACGAGAAATTTAAGAATCATCG

**FIGURE 3 (continued)**

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CTCGATGATGCATTTATGCCGAACGAGAAGGTTGTGAAGAATCCTGATGACTCTGTCTC  
 GTAGCCTTGGGTTGTGAAGAAGAAGAAAAGATCAAGACTTGGTAGGTCTGGGAAGACTTTA  
 TTTACTACGTTCTGAACCGAGTTCTATTGGATGCGACTGATGAAGAATTAGAAGTGGC  
 GGATTGTTGATTCTATTGTCTAAGAGTGCTCCAAGGTTGAGACGAATTGAAAAGTCTT  
 CTGAGGGAGTACGTGTTACTCCTGAAACACCTGAAAGTAGCTATGATTGGGTTGTTGCTC  
 AACAAAGAAACCGAGAAAGGTGGTAATTGGAACTGGGTTTAAGTAATGAGCAAAGACT  
 TATGGAAGAAGGTTAGTAGTTATGGAACATCGAAAGAACCGAGCTAGCTTCTGAGAGACG  
 AAAACAGATTGGATCAGCAGAAACGGAGAAAAGATGGTGAATTGAATCCGGACTTTGAGT  
 AATGAGCAAAGACTGCTAGAAGAAGAGATTACTACTCCTGTGACATTCAAAGTCCAGCGAG  
 TTCCCTGAGACACAAGTGTGCTTGGATCGAAATGGAGGTGAATTGGCTCTGAGTTTGA  
 GTAATGAGCAAACACTGATGGAAGAACATGGAAAGAACCGAGCTGAGTTCTTAGAAGATAAG  
 CATGAATTGATCAGCGAAAATGCGAGAAGCTGGCGACTTGAATCTAGGTTTACAGAAT  
 TGAGCTGGAGTAGGAGCTATGGAGTGTACTCTTCAGATACTGATATGCTCACGCAACTG  
 ATAAGAAGAACGTTGAGCATCGATGCAGGTTGTCAACAAGATATTCTCGTTATCAAGCT  
 CTAGGGGGTCATCAGACGTTCATCGGATGAGCAAATGTAAGAACAGAACATGGCATAGA  
 GGAATCAGTTGAACCCAGGATGACTCTGTGA

**SEQ ID NO 48:** gi\_9755803\_ref\_CAC01747.1, 2xC2H2, *Arabidopsis thaliana*

MEDEHQDLHKPINGALRDLKITRSQKETEKSTNQQQDVTCYYGLRENSKKKTQESPEPMKKI  
 LFRCEECGKGFRYEKYFKNHRSMMHLSNEKVCESLMTLSRSLGFVKKKRSRLGRSGKTL  
 FTTFLEPSSIFDATDEELEVADCLILLSKSAPKVVDLKSLSEAVRVTPETPESSYDLGCLL  
 NKKPRKGGELESVLSNEQRIMEEGFSYGTKEPASFLRDENRLDQQKRRKDGEFESGLLS  
 NEQRLLEEEITTPVTFKGPASSLRHKCALDRNGGEFGPEFLSNEQTLMEETWKEPVSFLEDK  
 HEFDQRMREAGDFESRFYRIELGVGAMECTSDDMLTQSDKKNVEHRCRLCNKIFSSYQA  
 LGGHQTFHRMSCKKNKNGIEESVEPRMTL

**SEQ ID NO 49:** gi\_1418338\_ref\_X98678.1, 2xC2H2, *Arabidopsis thaliana*

CTTGTAGTTCACTCCACATAATAAACACCAAAGATTCTATTCTCTCCATAATTCGAA  
 GTTTCTGAATTGGGTTGTTCTGATTGTTCTTGAATTGGGTTGGTCTTCTTTCT  
 TACTATATTGGATATGATGATGGTCAAGATGAGGTTGGGAGTGATCAGACGCAAATCATA  
 AAAGGGAAACGTACGAAGCGACAAAGATCGTCTCGACGTTGTGGTACGGCGGCACAAAC  
 AGTGAATCAACAAGTTCATCGGCCGTGGAAGTGGAGGAGAAAGAGCTGTTTCAGATGAAT  
 ACAACTCGCGGGTTCTGTCCTCGGTGACTACTGATTGACGCAAGAAGAAGACATGGCG  
 ATTTGTCATCATGTTAGCTCGTGGACAGTTCTCCATGCCGATCTCAAGAACTCGAG  
 AAAAATTCACTCAGAAGATTCTCGCAGAATTCTAGTTCTATGTGTACGAGTGTAAACGT  
 GTAACCGGACGTTCTCGTCTCCAAGCACTGGTGGACACAGAGCGAGCCACAAGAACCG  
 AGGACGTCGACTGAGGAAAAGACTAGACTACCCCTGACGCCAACCAAGTCTAGTGCATCAGA  
 AGAAGGGCAAACAGTCATTCAAAGTTCCGGCTCAGCCCTAGCTTACAGGCAAGTAACA  
 TCATCAACAAGGCAAACAAAGTACACGAGTGTCCATCTCGCGTTCTGAGTTCACTCCGGG  
 CAAGCTCTCGGTGGTCACATGAGGCGCACAGGACAGCCGTAACCACGATTAGCCCCGTTGC  
 AGCCACCGCAGAAGTAAGCAGAAACAGTACAGAGGAAGAGATTGAGATCAATATAGGCCGTT  
 CGATGGAACAGCAGAGGAAATATCTACCGTTGGATCTTAACTACCAAGCACCAGGAGATGAT  
 CTAAGAGAGTCCAAGTTCAAGGGATAGTATTCTCAGAACACCAGCGTTAATAGATTGTCA  
 TTACTAGTTGTTTTTACTACATAATATGATGAAATATTGTGAATTCTTACTTACT  
 ACTATATTGTTGATCAAAAAAAAAAAAAAA

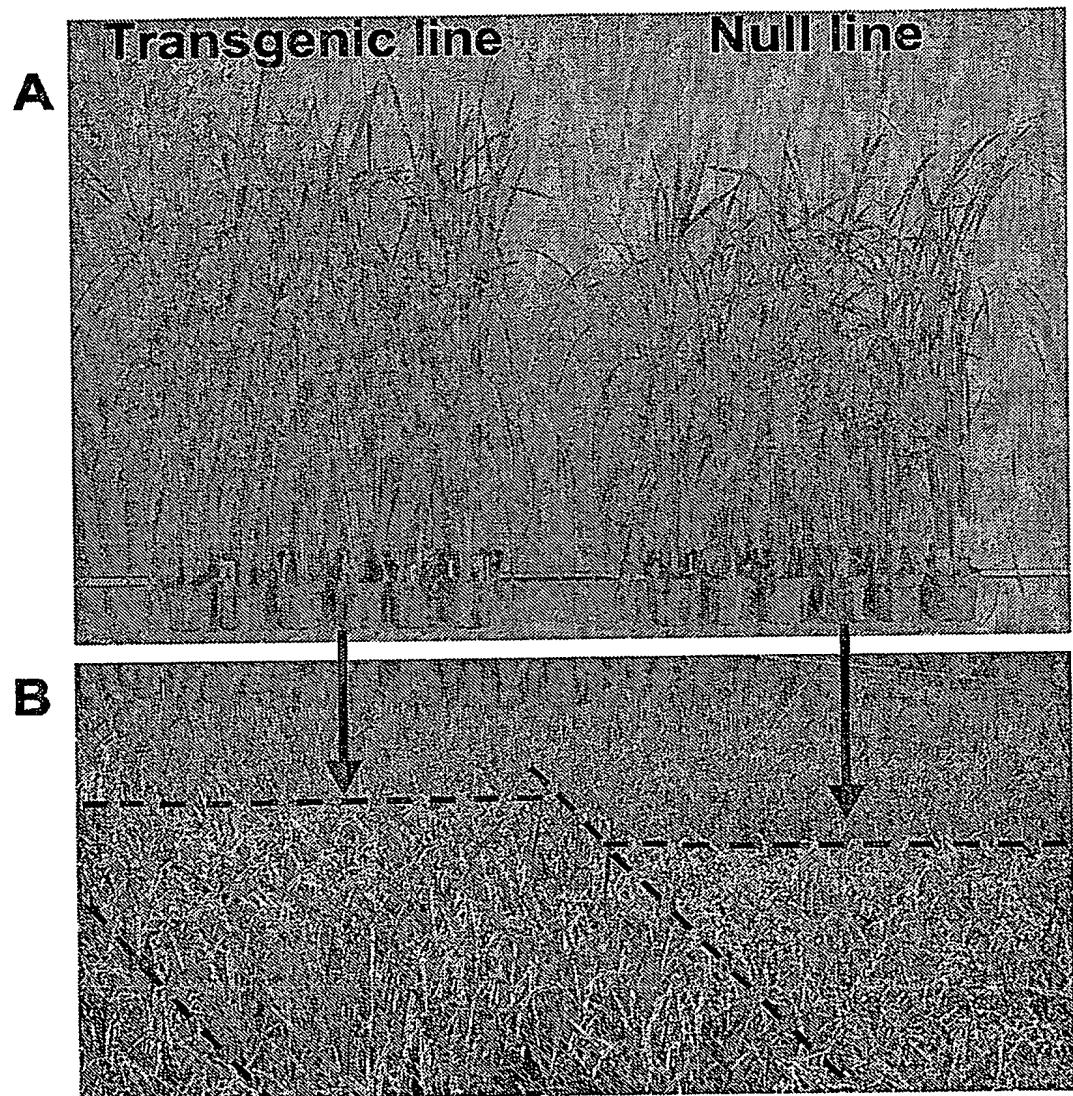
**FIGURE 3 (continued)**

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**SEQ ID NO 50: gi\_1418339\_ref\_CAA67236.1, 2xC2H2, Arabidopsis thaliana**  
MGQDEVGS DQTQI IKGKRTKRQRSSSTFVVTAA TTVTSTSSAGGS GGERAVSDEYNSAVSS  
PVTTDCTQEEEDMAICLIMLARGTVLPSPDLKNSRKIHQKISSENSSFYVYECKTCNRTFSS  
FQALGGHRASHKKPRTSTEKTRLPLTQP KSSASEEGQNSHFKVSGS ALASQASNIINKANK  
VHECSICGSEFTSGQALGGHMRRHRTAVTTISPVAATAEVSRNSTEEEIEINIGRSMEQQRK  
YLPLDLNLPAPGDDLRESKFQGIVFSATPALIDCHY

**FIGURE 3 (continued)**

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**FIGURE 4**

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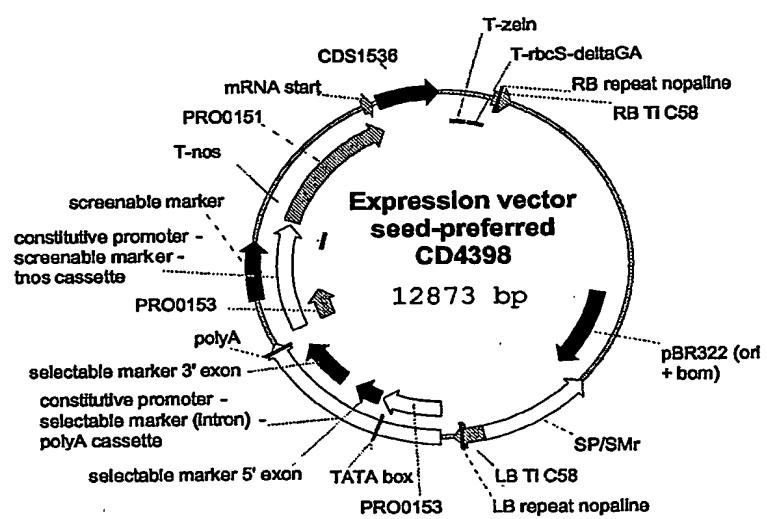


FIGURE 5